С	P1		Active					E	CAC+	
FCN	<b>/</b> 104.2	Enhanced Short Term ATFCM Measures								
REG	ASP	MIL	APO	USE	INT	IND	NM	MET	AIS	USP

# Subject matter and scope

ATFCM is coordinated at network level by the Network Manager and at local level by the flow management position to support hot-spot detection, execution of Short-Term ATFCM Measures (STAM), network assessment and continuous monitoring of network activity. STAM is established requiring coordination between Air Traffic Control, Airport, Airspace Users and Network Manager.

Tactical capacity management using STAM shall ensure a close and efficient coordination between ATC and the network management function. Tactical capacity management shall implement STAM using cooperative decision-making to manage flow before flights enter a sector.

Additional tasks relevant to the STAM scope should encompass:

- utilisation of approved STAM concept of operations;
- development of operational guidance documentation;
- · development of training package;
- development of harmonized operational procedures.

ANSP, AU and airport will apply harmonized operational procedures, taking into account the STAM prerequisites such as the traffic information and flight predictability.

Airspace Users should at minimum update their flight plans, manage the slot and the mandatory rerouting, but could also provide simple priorities, participate to CDM process, manage rerouting proposal.

#### System requirements:

NM systems shall implement the STAM functionalities and shall support the coordination of STAM measures implementation, including Network Impact assessment capabilities.

The STAM tool should include occupancy traffic monitoring values (OTMV), hotspot detection and coordination. The enhancements should mainly focus on:

- enhanced monitoring techniques (including hotspot management and complexity indicators);
- coordination systems (including interfaces with local tools);
- what-if function (local measures, flight-based, flow-based and multiple measure alternative);
- network impact assessment.

ANSP and AU shall use either the NM-provided STAM application or may deploy local tools, which shall interact with the NM systems using SWIM services, when and where available, at the latest by December 2025.

NOTE FOR MILITARY AUTHORITIES: It is the responsibility of each military authority to review this Objective IN ITS ENTIRETY and address each of the SLoAs that the military authority considers RELEVANT for itself. This has to be done on top and above of the review of "MIL" SLoAs which identify actions EXCLUSIVE to military authorities.

## Applicability Area(s) & Timescale(s)

Applicability Area 1	All EU SES States	All EU SES States					
Applicability Area 2	Herzegovina, Montenegro, North Macedonia, Serbia, Türkiye, United Kingdom						
Timescales:		From:	Ву:	Applicable to:			
Initial operational capability		01/11/2017		Applicability Area 1 + Applicability Area 2			
Full Operational Capability / Target Date			31/12/2022	Applicability Area 1 + Applicability Area 2			

#### References

## **European ATM Master Plan**

OI step -	[DCB-0308]-Advanced Short Term ATFCM								
	Enablers - NIMS-13b NIMS-27 PRO-022 PRO-247 SWIM-APS- 03a 04a 05a 01a								
OI step -	- No OI Link	- No OI Link -							
	Enablers -	ER APP ATC 17							

#### FCM04.2 **Enhanced Short Term ATFCM Measures**

WXYZ-002 Covered by SLoA(s) in another objective Covered by SLoA(s) in WXYZ-Not covered in the WXYZ-001 Legend: this objective 003 Implementation Plan Objective covering the enabler ZZZ

# Applicable legislation

Regulation (EU) 2021/116 on the establishment of the Common Project One

#### **Essential Operational Changes**

ATM Interconnected Network

#### **SESAR Solution**

#17 - Advanced Short-Term ATFCM Measures (STAM)

#### **ICAO GANP - ASBUs**

NOPS-B1/1 Short Term ATFM measures

### **Deployment Programme**

4.1.1 **Enhanced Short Term ATFCM Measures** 

#### **European Plan for Aviation Safety**

- none -

# **Operating Environments**

En-Route Network

# Stakeholder Lines of Action (SLoAs)

SloA ref.	Title	From	Ву
FCM04.2-ASP01	Develop STAM procedure	01/11/2017	31/12/2022
FCM04.2-ASP02	Upgrade and use the local systems	01/11/2017	31/12/2022
FCM04.2-ASP03	Use of NM STAM application	01/11/2017	31/12/2022
FCM04.2-ASP04	Safety assessment	01/11/2017	31/12/2022
FCM04.2-ASP05	Training	01/11/2017	31/12/2022
FCM04.2-ASP06	Operational use	01/11/2017	31/12/2022
FCM04.2-USE01	Follow the validity of the flight plan and ATFM slot vs STAM measure	01/11/2017	31/12/2022
FCM04.2-NM01	Develop STAM procedures and upgrade the local systems	01/11/2017	31/12/2022
FCM04.2-NM02	Provide interface between NM and local tool	01/11/2017	31/12/2022
FCM04.2-NM03	Safety assessment	01/11/2017	31/12/2022
FCM04.2-NM04	Training	01/11/2017	31/12/2022
FCM04.2-NM05	Operational use	01/11/2017	31/12/2022

Description of finalised and deleted SLoAs is available on the eATM Portal @ https://www.eatmportal.eu/working/depl/essip\_objectives

# **Expected Performance Benefits**

Improved situational awareness of the European network. Safety: Capacity: Better use of airspace capacity in terminal and enroute airspace.

**Operational Efficiency:** 

Increased cost efficiency.

**Cost Efficiency:** 

Better use of airspace capacity in terminal and enroute airspace. **Environment:** 

Security:

# **Detailed SLoA Descriptions**

FCM04.2-ASP01	Develop STAM procedure	From:	Bv <sup>-</sup>	

# Implementation Plan Edition 2022

FCM04.2	Enhanced Short Term ATFCM Measures
FCM04.2	Enhanced Short Term ATFCM Measures

		01/11/2017	31/12/2022
Action by:	ANS Providers	I	
Description & purpose:	Decide, based on specific operational needs, if a local STAM system sufficient. Develop the associated procedures to ensure that the ATF coordination process.		
	Note :This SLoA needs to be synchronised between ANSPs and NM		
Supporting material(s):	SDM - Standardisation and Regulation support to CP1 deployment 2 Url : <a deployment<="" deploymentmanager.eu="" href="https://www.sesardeploymentmanager.eu/publications/deployment&lt;/td&gt;&lt;td&gt;•&lt;/td&gt;&lt;td&gt;1 07/2021&lt;/td&gt;&lt;/tr&gt;&lt;tr&gt;&lt;td&gt;ATM Master Plan&lt;br&gt;relationship:&lt;/td&gt;&lt;td&gt;[PRO-247]-FCM Procedures for hotspots information sharing and for implementation&lt;/td&gt;&lt;td&gt;CDM process to supp&lt;/td&gt;&lt;td&gt;ort STAM coordination and&lt;/td&gt;&lt;/tr&gt;&lt;tr&gt;&lt;td&gt;Finalisation criteria:&lt;/td&gt;&lt;td&gt;1 - The local procedures for STAM have been developed, either with&lt;/td&gt;&lt;td&gt;local tool or NM tool.&lt;/td&gt;&lt;td&gt;&lt;/td&gt;&lt;/tr&gt;&lt;tr&gt;&lt;td&gt;FCM04.2-ASP02&lt;/td&gt;&lt;td&gt;Upgrade and use the local systems&lt;/td&gt;&lt;td&gt;From: 01/11/2017&lt;/td&gt;&lt;td&gt;By: 31/12/2022&lt;/td&gt;&lt;/tr&gt;&lt;tr&gt;&lt;td&gt;Action by:&lt;/td&gt;&lt;td&gt;ANS Providers&lt;/td&gt;&lt;td&gt;&lt;/td&gt;&lt;td&gt;&lt;/td&gt;&lt;/tr&gt;&lt;tr&gt;&lt;td&gt;Description &amp; purpose:&lt;/td&gt;&lt;td&gt;Ensure that the ATFCM planning at local level allows the STAM coor actors and Procure/ Upgrade the local STAM systems, if required and develop the connectivity with NM by using the NM B2B Services that&lt;/td&gt;&lt;td&gt;d justified with specific support the STAM pro&lt;/td&gt;&lt;td&gt;operational needs, and&lt;/td&gt;&lt;/tr&gt;&lt;tr&gt;&lt;td&gt;&lt;/td&gt;&lt;td&gt;Note:FCM04.2-ASP02 and FCM04.2-ASP03 can be implemented in This SLoA needs to be synchronised between ANSPs, AUs and NM.&lt;/td&gt;&lt;td&gt;'&lt;/td&gt;&lt;td&gt;&lt;/td&gt;&lt;/tr&gt;&lt;tr&gt;&lt;td&gt;Supporting material(s):&lt;/td&gt;&lt;td&gt;SDM - Standardisation and Regulation support to CP1 deployment 2&lt;/td&gt;&lt;td&gt;&lt;/td&gt;&lt;td&gt;1 07/2021&lt;/td&gt;&lt;/tr&gt;&lt;tr&gt;&lt;td&gt;&lt;/td&gt;&lt;td&gt;Url: https://www.sesardeploymentmanager.eu/publications/deploymentmanager.&lt;/td&gt;&lt;td&gt;&lt;/td&gt;&lt;td&gt;&lt;/td&gt;&lt;/tr&gt;&lt;tr&gt;&lt;td&gt;ATM Master Plan&lt;/td&gt;&lt;td&gt;[NIMS-13b]-Enhanced short term ATFM measures ( STAM)&lt;/td&gt;&lt;td&gt;&lt;/td&gt;&lt;td&gt;&lt;/td&gt;&lt;/tr&gt;&lt;tr&gt;&lt;td&gt;elationship:&lt;/td&gt;&lt;td&gt;[PRO-247]-FCM Procedures for hotspots information sharing and for implementation&lt;/td&gt;&lt;td&gt;CDM process to supp&lt;/td&gt;&lt;td&gt;ort STAM coordination and&lt;/td&gt;&lt;/tr&gt;&lt;tr&gt;&lt;td&gt;Finalisation criteria:&lt;/td&gt;&lt;td&gt;1 - Local STAM tool has been used and connected to NM tool.&lt;/td&gt;&lt;td&gt;&lt;/td&gt;&lt;td&gt;&lt;/td&gt;&lt;/tr&gt;&lt;tr&gt;&lt;td&gt;FCM04.2-ASP03&lt;/td&gt;&lt;td&gt;Use of NM STAM application&lt;/td&gt;&lt;td&gt;From: 01/11/2017&lt;/td&gt;&lt;td&gt;By: 31/12/2022&lt;/td&gt;&lt;/tr&gt;&lt;tr&gt;&lt;td&gt;Action by:&lt;/td&gt;&lt;td&gt;ANS Providers&lt;/td&gt;&lt;td&gt;&lt;/td&gt;&lt;td&gt;&lt;/td&gt;&lt;/tr&gt;&lt;tr&gt;&lt;td&gt;Description &amp; purpose:&lt;/td&gt;&lt;td&gt;Use of STAM application and services provided by NM HMI. Addition techniques, what-if functionality for local measures and system-base&lt;/td&gt;&lt;td&gt;&lt;/td&gt;&lt;td&gt;&lt;/td&gt;&lt;/tr&gt;&lt;tr&gt;&lt;td&gt;&lt;/td&gt;&lt;td&gt;Note :FCM04.2-ASP02 and FCM04.2-ASP03 can be implemented in&lt;/td&gt;&lt;td&gt;&lt;/td&gt;&lt;td&gt;&lt;/td&gt;&lt;/tr&gt;&lt;tr&gt;&lt;td&gt;&lt;/td&gt;&lt;td&gt;This SLoA needs to be synchronised between ANSPs and NM.&lt;/td&gt;&lt;td&gt;&lt;/td&gt;&lt;td&gt;&lt;/td&gt;&lt;/tr&gt;&lt;tr&gt;&lt;td&gt;Supporting material(s):&lt;/td&gt;&lt;td&gt;SDM - Standardisation and Regulation support to CP1 deployment 2:&lt;br&gt;Url : &lt;a href=" https:="" publications="" td="" www.sesardeploymentmanager.eu=""><td></td><td>1 07/2021</td></a>		1 07/2021
ATM Master Plan relationship:	[NIMS-13b]-Enhanced short term ATFM measures (STAM)  [PRO-247]-FCM Procedures for hotspots information sharing and for implementation	CDM process to supp	ort STAM coordination and
Finalisation criteria:	1 - NM STAM tool has been used		
<b>FOUR 4 C 1 27 C 1</b>		From:	By:
FCM04.2-ASP04	Safety assessment	01/11/2017	By: 31/12/2022
	ANS Providers	01/11/2017	31/12/2022
Action by: Description & purpose:	ANS Providers  The safety assessment of the changes must be developed and deliver	01/11/2017 ered to the competent	31/12/2022 authority.
Action by: Description & purpose:	ANS Providers	01/11/2017 ered to the competent a 021, Deliverable D1.1.	31/12/2022 authority.
FCM04.2-ASP04  Action by: Description & purpose: Supporting material(s): Finalisation criteria:	ANS Providers  The safety assessment of the changes must be developed and delive SDM - Standardisation and Regulation support to CP1 deployment 2	01/11/2017 ered to the competent and the compete	31/12/2022 authority. 1 07/2021
Action by: Description & purpose: Supporting material(s):	ANS Providers  The safety assessment of the changes must be developed and delive SDM - Standardisation and Regulation support to CP1 deployment 2 Url: https://www.sesardeploymentmanager.eu/publications/deployme	01/11/2017 ered to the competent and the compete	31/12/2022 authority.
Action by: Description & purpose: Supporting material(s): Finalisation criteria:	ANS Providers  The safety assessment of the changes must be developed and delive SDM - Standardisation and Regulation support to CP1 deployment 2: https://www.sesardeploymentmanager.eu/publications/deployment 1 - Safety assessment has been developed and delivered to the com	o1/11/2017  ered to the competent and o21, Deliverable D1.1. ent-programme petent authority.  From:	31/12/2022 authority. 1 07/2021 By:
Action by: Description & purpose: Supporting material(s): Finalisation criteria: FCM04.2-ASP05 Action by:	ANS Providers  The safety assessment of the changes must be developed and delivered specific	o1/11/2017  ered to the competent and o21, Deliverable D1.1. ent-programme petent authority.  From:	31/12/2022 authority. 1 07/2021 By:
Action by: Description & purpose: Supporting material(s): Finalisation criteria: FCM04.2-ASP05	ANS Providers  The safety assessment of the changes must be developed and delivered specific	o1/11/2017  ered to the competent at 021, Deliverable D1.1. ent-programme petent authority.  From: 01/11/2017	31/12/2022  authority. 1 07/2021  By: 31/12/2022
Action by: Description & purpose: Supporting material(s): Finalisation criteria: FCM04.2-ASP05 Action by: Description & purpose:	ANS Providers  The safety assessment of the changes must be developed and delivered specific	o1/11/2017  ered to the competent and the competent authority.  From: 01/11/2017  021, Deliverable D1.1.	31/12/2022  authority. 1 07/2021  By: 31/12/2022
Action by: Description & purpose: Supporting material(s): Finalisation criteria: FCM04.2-ASP05 Action by: Description & purpose:	ANS Providers  The safety assessment of the changes must be developed and delivered specific	o1/11/2017  ered to the competent and the competent authority.  From: 01/11/2017  021, Deliverable D1.1.	31/12/2022  authority. 1 07/2021  By: 31/12/2022

Action by:	ANS Providers					
	Airspace Users					
Description & purpose:	Enhanced Short Term ATFCM Measures is ready for operational use once the procedures are in place, the systems have been upgraded, the safety assessment has been delivered and approved, and the training has been completed.					
Supporting material(s):	SDM - Standardisation and Regulation support to CP1 deployment 20		1 07/2021			
	Url: https://www.sesardeploymentmanager.eu/publications/deployme	nt-programme				
inalisation criteria:	1 - Enhanced Short Term ATFCM Measures are put into service	F====	D			
FCM04.2-USE01	Follow the validity of the flight plan and ATFM slot vs STAM measure	From: 01/11/2017	By: 31/12/2022			
ction by:	Airspace Users NM		'			
Description & purpose:	Follow the implementation of STAM measure either automatically or rand/or modification of slot.	nanually by reception	of mandatory rerouting			
	Note :This SLoA needs to be synchronised between ANSPs, AUs and NM.					
supporting material(s):	SDM - Standardisation and Regulation support to CP1 deployment 20		1 07/2021			
- , ,	Url : https://www.sesardeploymentmanager.eu/publications/deployme	nt-programme				
TM Master Plan elationship:	[NIMS-13b]-Enhanced short term ATFM measures ( STAM)					
inalisation criteria:	1 - The flight has a valid flight plan and the amended slot if any is tran	smitted to the crew.				
FCM04.2-NM01	Develop STAM procedures and upgrade the local systems	From:	By:			
1 GIVIU4.2-IVIVIU I	Develop 31 Am procedures and appraise the local systems	01/11/2017	31/12/2022			
ction by:	NM					
escription & purpose:	Update the NM systems and develop the associated procedures to er supports hot-spot detection, what-if function, STAM CDM, execution of					
	continuous monitoring of network activity.					
upporting material(s):		•				
	continuous monitoring of network activity.	21, Deliverable D1.1.				
TM Master Plan	continuous monitoring of network activity.  SDM - Standardisation and Regulation support to CP1 deployment 20 Url: https://www.sesardeploymentmanager.eu/publications/deployme [NIMS-13b]-Enhanced short term ATFM measures (STAM)	21, Deliverable D1.1. nt-programme	1 07/2021			
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TM Master Plan	continuous monitoring of network activity.  SDM - Standardisation and Regulation support to CP1 deployment 20 Url: https://www.sesardeploymentmanager.eu/publications/deployme [NIMS-13b]-Enhanced short term ATFM measures (STAM) [NIMS-27]-Network DCB sub-system enhanced with improved accura [PRO-022]-FCM procedures for collaborating on SBT changes with A [PRO-247]-FCM Procedures for hotspots information sharing and for	121, Deliverable D1.1.  nt-programme  cy of processing real- rspace Users	1 07/2021 time data			
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**Enhanced Short Term ATFCM Measures** 

FCM04.2

Description & purpose:	All relevant staff must be duly trained.						
Supporting material(s):	SDM - Standardisation and Regulation support to CP1 deployment 2021, Deliverable D1.1.1 07/2021						
	Url: https://www.sesardeploymentmanager.eu/publications/deplo	Url: https://www.sesardeploymentmanager.eu/publications/deployment-programme					
Finalisation criteria:	1 - Training has been completed.						
		From:	Ву:				
FCM04.2-NM05	Operational use	01/11/2017	31/12/2022				
Action by:	NM						
Description & purpose:	Enhanced Short Term ATFCM Measures is ready for operational use once the procedures are in place, the systems have been upgraded, the safety assessment has been delivered and approved, and the training has been completed.						
Supporting material(s):	SDM - Standardisation and Regulation support to CP1 deployme	nt 2021, Deliverable D1.1.	1 07/2021				

 $\textbf{Url}: \underline{\text{https://www.sesardeploymentmanager.eu/publications/deployment-programme}}$ 

1 - Enhanced Short Term ATFCM Measures are put into service.

**Enhanced Short Term ATFCM Measures** 

FCM04.2

Finalisation criteria: